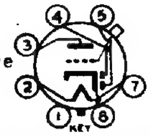
6Q7, 6Q7-G, 6Q7-GT

DUPLEX-DIODE HIGH-MU TRIODE

Heater■	Coated Unipotential Cathode			
Voltage	6.3			a-c or d-c volts
Current	0.3			amp.
	6Q7	*6Q7-G*	*6Q7-GT*	
Direct Interelectrode Cap.	▲	▲▲	▲▲	
Grid to Plate	1.4	1.5	1.6	μμf
Grid to Cathode	5.0	3.2	2.2	μμf
Plate to Cathode	3.8	5.0	5.0	μμf
Overall Length	3-1/8" max.	4-7/32" to 4-15/32"	3-5/16" max.	
Seated Height	2-9/16" max.	3-21/32" to 3-29/32"	2-3/4" max.	
Maximum Diameter	1-5/16"	1-9/16"	1-5/16"	
Bulb	Metal Shell, MT-8	ST-12	T-9	
Cap	Miniature	Skirted Miniature	Skirted Min. Style C	
Base	Small Wafer Octal 7-Pin	Small Shell Octal 7-Pin	Sm. Wafer Octal 7-Pin, Sleeve	
Basing Designation	7V	G-7V	GT-7V	

Pin 1 {6Q7, Shell; 6Q7-G, No Con.; 6Q7-GT, Base Sleeve}
Pin 2 – Heater
Pin 3 – Triode Plate
Pin 4 – Diode Plate #2
Pin 5 – Diode Plate #1
Pin 7 – Heater
Pin 8 – Cathode
Cap – Triode Grid



BOTTOM VIEW

Mounting Position: Any

TRIODE UNIT

Plate Voltage: 300 max. volts

Characteristics - Class A_1 Amplifier:

Plate	100	250	volts
Grid	-1	-3	volts
Amp. Fact.	70	70	
Plate Res.	58000	58000	ohms
Transcond.	1200	1200	μmhos
Plate Cur.	0.8	1.0	ma.

Typical Operation - Resistance-Coupled Amplifier:
See RESISTANCE-COUPLED AMPLIFIER CHART

DIODE UNITS – Two

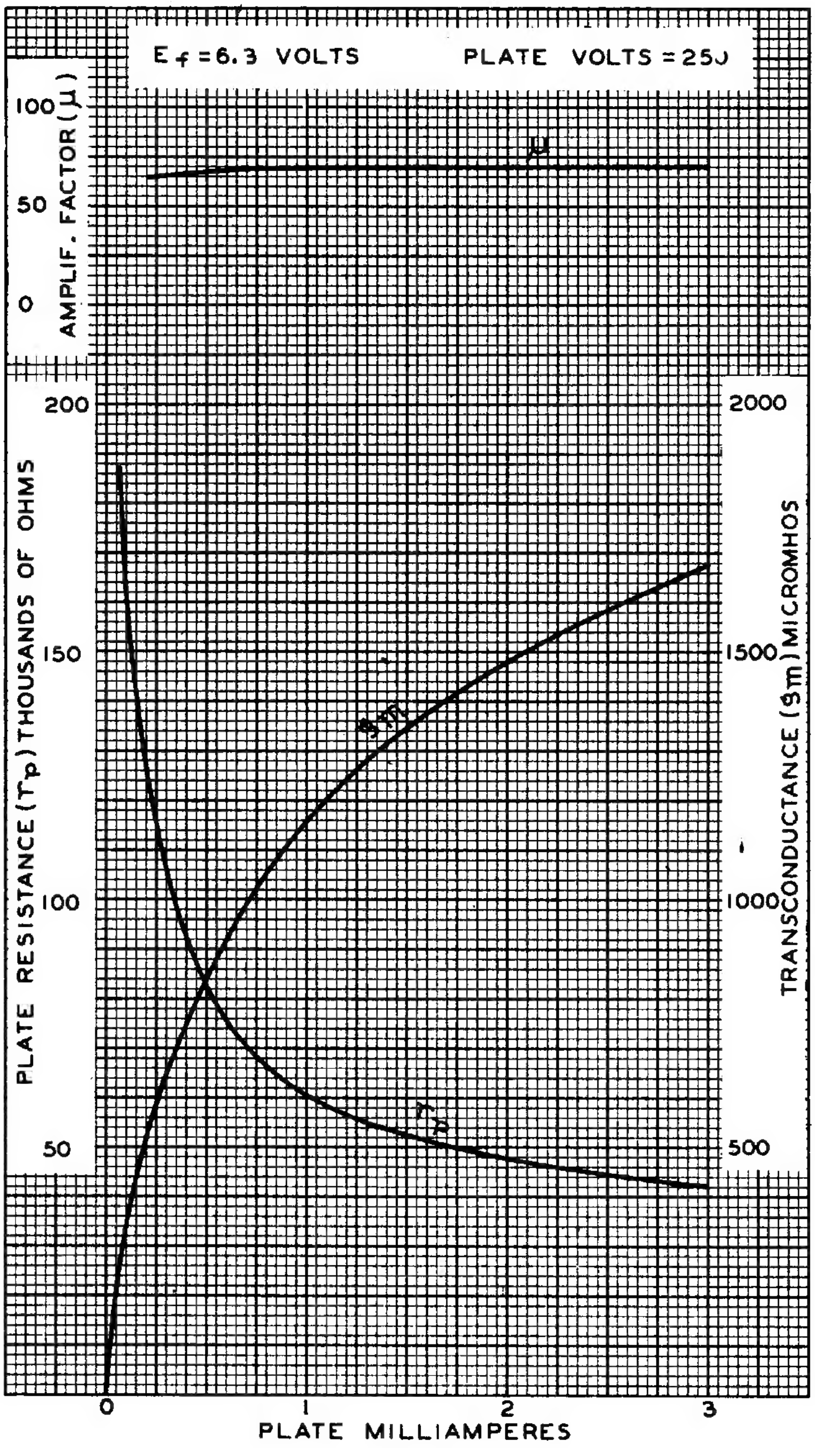
Consideration of these units is given under Type 85. Circuits will be similar to those shown for Type 55 with fixed bias. Diode biasing of the triode unit of the 6Q7, 6Q7-G or 6Q7-GT is not suitable. Diode curves under Type 6B7 apply to the 6Q7, 6Q7-G, and 6Q7-GT.

■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.
▲ With shell connected to cathode. Values are approximate.
▲▲ With close-fitting shield connected to cathode. Values are approximate.

← Indicates a change.

6Q7

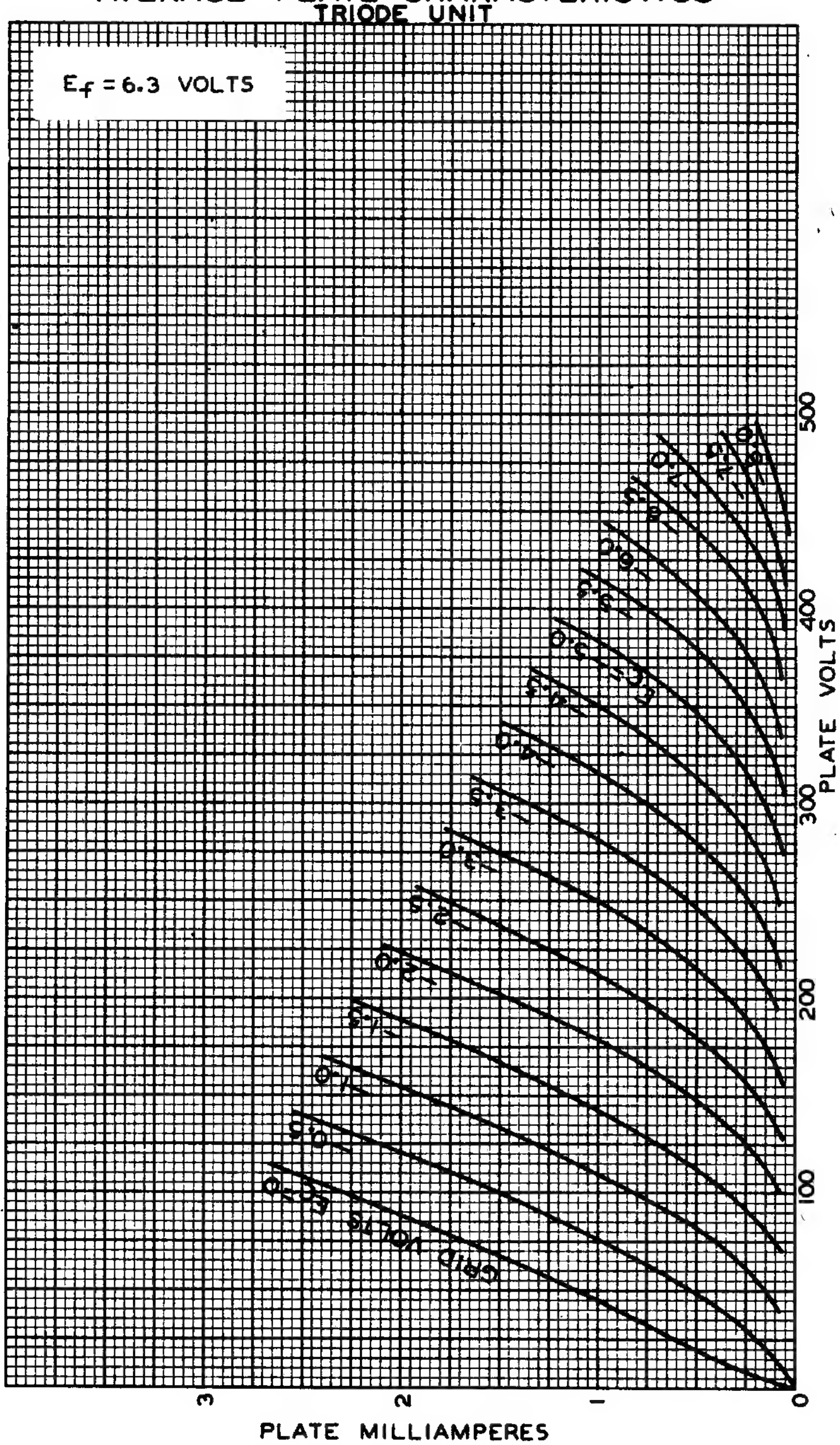
AVERAGE CHARACTERISTICS



6Q7

AVERAGE PLATE CHARACTERISTICS

TRIODE UNIT



SEPT. 10, 1941

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-4522R2